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(54) MIXING DEVICE OF FLUID

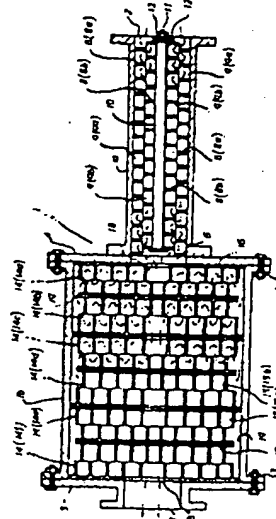
(57) Abstract:

PURPOSE: To effectively mix different kinds of fluids together, by giving dispersing, reversely turning, and eddying actions to the flow of fluids by arranging a cylindrical flow-guiding unit-body at the upstream side of a cylindrical body in the same direction as that of the flow and a discoidal flow-guiding unit-body at the downstream side perpendicularly to the flow direction.

CONSTITUTION: Different kinds of fluids are led into the inside of a subcylindrical body 1a from an inlet port 1a, and are passed through each small rhombic chamber 9a and 9b meanderingly in sequence in the direction of an arrow, and are led into a main cylindrical body 1b from an opening port 6 while being given dispersing, reversely turning, and eddying actions. The fluids pass meanderingly through small hexagonal chambers 15a and 15b from a flow-through hole 18 of the 1st discoidal flow-guiding unit-body 14a, and flow radially to the outside from the central part while being mixed together by dispersing, reversely turning, and eddying actions. When the fluids reach the inner peripheral surface of the main cylindrical body 1b, the fluids are turned reversely through a flow path 19, and pass meanderingly through each small chamber 15a and 15b of the 2nd discoidal flow-guiding unit-body 14b to gather

on the central part, and enter the 3rd discoidal flow-guiding unit-body 14c through a flow-through hole 18. After repeating these actions, the fluids are discharged from an exit port 7.

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